

PROJECT DESCRIPTION

GENERAL

THIS PORTION OF THE PROJECT INVOLVES THE INSTALLATION OF A TEMPORARY TRAFFIC SIGNAL FOR STAGES II, III AND IV OF THE TRAFFIC CONTROL PLANS AT THE INTERSECTION OF MD 85 RELOCATED AND MD 355 IN FREDERICK COUNTY. MD 355 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

DURING STAGE II, III AND IV, THE INTERSECTION WILL OPERATE IN A NEMA EIGHT-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH THE MD 355 APPROACHES OPERATING CONCURRENTLY AND THE MD 85 RELOCATED APPROACHES OPERATING CONCURRENTLY.

EXCLUSIVE/PERMISSIVE LEFT-TURN PHASE WILL BE PROVIDED ON THE SOUTHBOUND MD 355 APPROACH AND EXCLUSIVE LEFT-TURN PHASES WILL BE PROVIDED ON THE NORTH AND SOUTH MD 85 RELOCATED APPROACHES.

CONTROLLER REQUIREMENTS

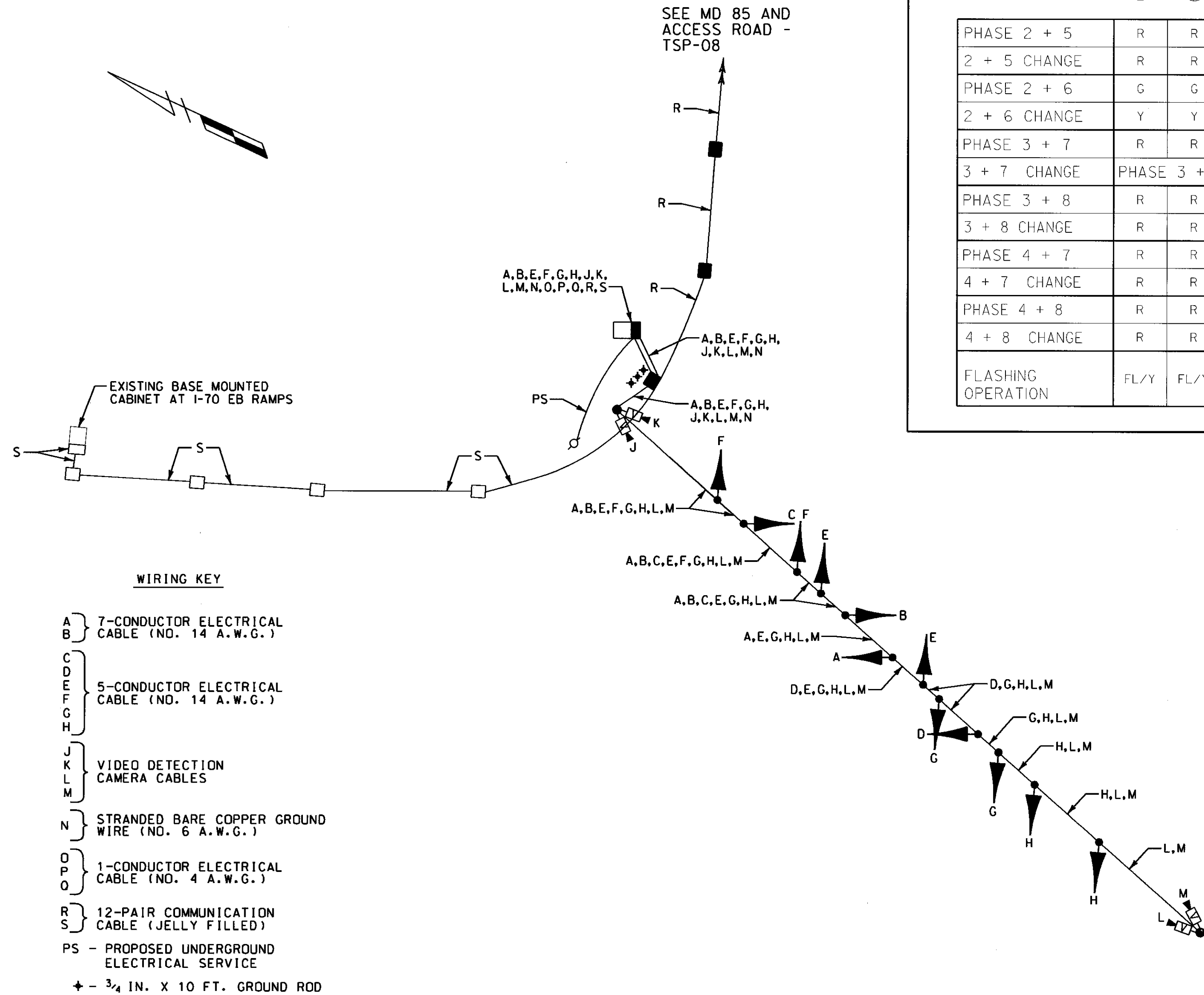
INSTALL A FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER, WITH SYSTEM PACKAGE AND THREE (3) FOUR-CHANNEL, TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIERS HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET.

MAINTENANCE OF TRAFFIC

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT.

- STANDARD NO. MD-104.00 - 104.00-30
STANDARD NO. MD-104.37-01 (LEFT LANE CLOSURE)
STANDARD NO. MD-104.38-01 (RIGHT LANE CLOSURE)
STANDARD NO. MD-104.39-01 (INTERSECTION FAR-SIDE CLOSURE)
STANDARD NO. MD-104.40-01 (INTERSECTION FAR-LEFT LANE CLOSURE)
STANDARD NO. MD-104.40-01 (INTERSECTION FAR-LEFT LANE CLOSURE)
STANDARD NO. MD-104.43-01 (SHOULDER WORK)
STANDARD NO. MD-104.32-01 (INTERSECTION FLAGGING OPERATION)

MD 355 AND MD 85 RELOCATED TEMPORARY WIRING DIAGRAM



EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

CATEGORY CODE NO.	QUANTITY	DESCRIPTION
900000	3 EACH	FOUR-CHANNEL, TIME DELAY OUTPUT, LOOP DETECTOR AMPLIFIER
971017	1 EACH	EIGHT-PHASE, FULL-TRAFFIC-ACTUATED CONTROLLER WITH SYSTEM, PACKAGE AND ASSOCIATED HARNESS HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET
973023	46 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF : - 3 EACH R3-5L SIGN (30 IN. x 36 IN.) - SPAN MOUNT - 1 EACH R10-12 SIGN (36 IN. x 42 IN.) SPAN MOUNT - 1 EACH R3-1 SIGN (30 IN. x 30 IN.) - SPAN MOUNT

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MR. ROBERT FISHER
DISTRICT ENGINEER
PHONE: (301) 624-8140

MR. JOHN NESBIT
DISTRICT UTILITIES ENGINEER
PHONE: (310) 729-8436

MR. JOHN CONCANNON
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (301) 624-8141

MR. RICHARD L. DAFF, SR.
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

MR. LEON KERNS
ACTING ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 624-8140

MD 355 AND MD 85 RELOCATED TEMPORARY PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12
	R	R	R	R	R	R	R	R	R	R	R	R
	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	G	G	G	G	G	G	G	G	G	G	G	G
PHASE 2 + 5	R	R	G	G	R	R	R	R	R	R	R	R
2 + 5 CHANGE	R	R	G	G	R	R	R	R	R	R	R	R
PHASE 2 + 6	G	G	G	G	R	R	R	R	R	R	R	R
2 + 6 CHANGE	Y	Y	Y	Y	R	R	R	R	R	R	R	R
PHASE 3 + 7	R	R	R	R	R	R	R	R	R	R	R	R
3 + 7 CHANGE	PHASE 3 + 7 MAY CHANGE TO PHASE 3 + 8, PHASE 4 + 7 OR PHASE 4 + 8											
PHASE 3 + 8	R	R	R	R	R	R	R	R	R	R	R	R
3 + 8 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 4 + 7	R	R	R	R	R	R	R	R	R	R	R	R
4 + 7 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 4 + 8	R	R	R	R	R	R	R	R	R	R	R	R
4 + 8 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

CATEGORY CODE NO.	QUANTITY	DESCRIPTION
120500	LUMP SUM	MAINTENANCE OF TRAFFIC
120610	5 U.D.	ARROW PANEL
120620	300 S.F.	TEMPORARY TRAFFIC SIGNS
130850	LUMP SUM	MOBILIZATION
114045	510 L.F.	24 IN. WHITE TEMPORARY WATERBORNE TRAFFIC PAINT
203030	3 C.Y.	TEST PIT EXCAVATION
801004	12 C.Y.	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
802501	60 L.F.	FURNISH AND INSTALL STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
805011	30 L.F.	FURNISH AND INSTALL 1 IN. ELECTRICAL CONDUIT - GALVANIZED SLEEVE
805160	60 L.F.	FURNISH AND INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALLIC CONDUIT DETECTOR SLEEVE
810010	45 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 1-CONDUCTOR (NO. 4 A.W.G. - THHN/THWN)
811001	11 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
813015	46 L.F.	INSTALL OVERHEAD SIGN
822002	1900 L.F.	FURNISH AND INSTALL 12 PAIR COMMUNICATION CABLE (JELLY-FILLED)
837001	5 EACH	FURNISH AND INSTALL GROUND ROD - 3/4 IN. DIAMETER X 10 FT. LENGTH
838003	1 EACH	FURNISH AND INSTALL CONTROL AND DISTRIBUTION EQUIPMENT
860272	38 EACH	FURNISH AND INSTALL 12 IN. VEHICULAR TRAFFIC SIGNAL HEAD SECTION
861107	1100 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.)
861108	600 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.)
869101	240 L.F.	FURNISH AND INSTALL STEEL SPAN WIRE - 1/4 IN. DIAMETER
869102	240 L.F.	FURNISH AND INSTALL STEEL SPAN WIRE - 3/8 IN. DIAMETER
870160	1000 L.F.	FURNISH AND INSTALL 2 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
870163	550 L.F.	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
870166	50 L.F.	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
871202	1 EACH	INSTALL CONTROLLER AND CABINET - BASE MOUNT
800000	2 EACH	FURNISH AND INSTALL 14 IN. X 32 FT. STEEL STRAIN POLE
800000	2 EACH	FURNISH AND INSTALL 3 IN. WEATHERHEAD
800000	1 EACH	REMOVAL AND DISPOSAL OF EXISTING MATERIAL AND EQUIPMENT
800000	1 EACH	FURNISH AND INSTALL VIDEO TRAFFIC INTERFACE EQUIPMENT
800000	850 L.F.	FURNISH AND INSTALL VIDEO TRAFFIC DETECTION CABLE
800000	52 S.F.	RELOCATE EXISTING SIGNS ON SPAN WIRE
800000	17 EACH	RELOCATE EXISTING SIGNAL HEADS
800000	4 EACH	FURNISH AND INSTALL VIDEO TRAFFIC DETECTION CAMERA

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA

SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME PROPERTY OF THE CONTRACTOR.

TSP-10

WR&A

Whitman, Reardon
and Associates, LLP
2315 Saint Paul Street
Baltimore, Maryland 21218
(410) 235-3450



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION SHEET - STAGES II, III AND IV
MD 355 AND MD 85 RELOCATED

DRAWN BY: S.BLOSS	F.A.P. NO. S.H.A. NO. FR866823-B24	SEE TITLE SHEET	TS NO.	SHEET NO.
CHECKED BY: N.LEARY	COUNTY: FREDERICK	LOG MILE:	T.I.M.S. NO. E089	OF
SCALE: 1" = 20'				
DATE: 8/27/01				